



Suman Rimal

Postdoctoral Scholar, Pathology

CONTACT INFORMATION

- **Alternate Contact**

Suman Rimal - Alternate email address

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Bio

BIO

Research interests: Genetic mechanism underlying mitochondrial pathology, neurodegeneration, and muscle loss using *Drosophila* as a model organism.

HONORS AND AWARDS

- Young Investigator Award, Korean *Drosophila* Research Society (2019)
- Invited speaker at the 73rd annual conference, The Korean Association of Biological Sciences (2018)
- Global scholarship award for foreign graduate students, Kookmin University (2016)

PROFESSIONAL EDUCATION

- Bachelor of Science, Tribhuban University (2010)
- Doctor of Philosophy, Kookmin University (2019)
- Master of Science, Tribhuban University (2014)
- PhD, Kookmin University , Molecular Genetics (2019)
- MS, Tribhuvan University , Medical Microbiology (2013)
- BS, Tribhuvan University , Microbiology (2010)

STANFORD ADVISORS

- Bingwei Lu, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Reverse electron transfer is activated during aging and contributes to aging and age-related disease.** *EMBO reports*
Rimal, S., Tantray, I., Li, Y., Pal Khaket, T., Li, Y., Bhurtel, S., Li, W., Zeng, C., Lu, B.
2023: e55548
- **The mTORC2/AKT/VCP axis is associated with quality control of the stalled translation of poly(GR) dipeptide repeats in C9-ALS/FTD.** *The Journal of biological chemistry*
Li, Y., Geng, J., Rimal, S., Wang, H., Liu, X., Lu, B., Li, S.

2023; 102995

- **Prevention of ribosome collision-induced neuromuscular degeneration by SARS CoV-2-encoded Nsp1.** *Proceedings of the National Academy of Sciences of the United States of America*
Wang, X., Rimal, S., Tantray, I., Geng, J., Bhurtel, S., Khaket, T. P., Li, W., Han, Z., Lu, B.
2022; 119 (42): e2202322119
- **Regulation of reverse electron transfer at mitochondrial complex I by unconventional Notch action in cancer stem cells.** *Developmental cell*
Ojha, R., Tantray, I., Rimal, S., Mitra, S., Cheshier, S., Lu, B.
1800; 57 (2): 260
- **Inefficient quality control of ribosome stalling during APP synthesis generates CAT-tailed species that precipitate hallmarks of Alzheimer's disease.** *Acta neuropathologica communications*
Rimal, S., Li, Y., Vartak, R., Geng, J., Tantray, I., Li, S., Huh, S., Vogel, H., Glabe, C., Grinberg, L. T., Spina, S., Seeley, W. W., Guo, et al
2021; 9 (1): 169
- **Cucurbitacin B Activates Bitter-Sensing Gustatory Receptor Neurons via Gustatory Receptor 33a in *Drosophila melanogaster*.** *Molecules and cells*
Rimal, S., Sang, J., Dhakal, S., Lee, Y.
2020; 43 (6): 530-538
- **Molecular sensor of nicotine in taste of *Drosophila melanogaster*** *INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY*
Rimal, S., Lee, Y.
2019; 111: 103178
- **Mechanism of Acetic Acid Gustatory Repulsion in *Drosophila*** *CELL REPORTS*
Rimal, S., Sang, J., Poudel, S., Thakur, D., Montell, C., Lee, Y.
2019; 26 (6): 1432-+
- **Gustatory receptor 28b is necessary for avoiding saponin in *Drosophila melanogaster*** *EMBO REPORTS*
Sang, J., Rimal, S., Lee, Y.
2019; 20 (2)
- **The multidimensional ionotropic receptors of *Drosophila melanogaster*** *INSECT MOLECULAR BIOLOGY*
Rimal, S., Lee, Y.
2018; 27 (1): 1-7